

CLAIMS:

1. A wearable electronic device comprising:  
a location determining component operable to determine a geographic location  
of the device;  
an elongated housing which encloses the location determining component; and  
a strap operable to removably attach the housing to a user's forearm.
2. The wearable electronic device of claim 1, the device having at least one input  
to operate the location determining component.
3. The wearable electronic device of claim 2, the device having a plurality of  
inputs positioned on the housing such that they may be accessed by the user during  
exercise or other activity.
4. The wearable electronic device of claim 1, the housing having a front side with  
a plurality of inputs positioned thereon, such that the plurality of inputs may be accessed  
by the user during exercise or other activity.
5. The wearable electronic device of claim 1, the housing having a front side and  
a top face, wherein a plurality of inputs are positioned on the front side and top face,  
such that the plurality of inputs may be accessed by the user during exercise or other  
activity.
6. The wearable electronic device of claim 1, the device having a display  
positioned such that it may be viewed by the user during exercise or other activity.
7. The wearable electronic device of claim 6, wherein the display is positioned  
on a top face of the housing.
8. The wearable electronic device of claim 6, wherein the display is a liquid  
crystal display.

9. The wearable electronic device of claim 6, wherein the display is capable of being viewed from multiple angles.

10. The wearable electronic device of claim 6, wherein the display is coupled with the location determining component to display geographic information.

11. The wearable electronic device of claim 10, wherein the display is operable to display the geographic location of the device.

12. The wearable electronic device of claim 1, wherein the device includes an entertainment component operable to execute at least one game.

13. The wearable electronic device of claim 12, wherein the entertainment component is operable to interface with the location determining component to receive the geographic location from the location determining component.

14. The wearable electronic device of claim 13, wherein the entertainment component includes the geographic location in an executed game.

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15. A wearable electronic device comprising:  
a location determining component operable to determine geographic location information;  
an elongated housing which encloses the location determining component;  
5 a display operable to display the geographic location information, wherein the display is positioned on the housing such that it may be easily viewed from multiple angles by a user during exercise or other activity;  
a plurality of inputs operable to operate the location determining component, wherein the inputs are positioned on the housing such that the inputs may  
10 be operated by the user with one hand; and  
a strap operable to removably attach the housing to the user's forearm.

16. The wearable electronic device of claim 15, wherein the location determining component comprises a GPS receiver.

17. The wearable electronic device of claim 16, wherein the GPS receiver is operable to receive a signal from two or more members of an array of orbiting satellites.

18. The wearable electronic device of claim 15, wherein the location determining  
20 component is operable to determine the user's current geographic location, map the user's location on the display, chart a desired course of travel on the display, and find a desired location on a map generated on the display.

19. The wearable electronic device of claim 15, wherein the device includes an  
25 antenna coupled with the location determining component.

20. The wearable electronic device of claim 19, wherein the antenna is enclosed entirely within the housing such that the antenna does not contact the user.

21. The wearable electronic device of claim 19, wherein the antenna is positioned  
30 within the housing opposite the display.

22. The wearable electronic device of claim 15, wherein the elongated housing is shaped to fit on the user's forearm such that the device is securely supported by the user's forearm.

5           23. The wearable electronic device of claim 22, wherein the housing has a width between two and four inches, a height between one and two inches, and a depth between one-eighth of an inch and one inch.

10           24. The wearable electronic device of claim 15, wherein the strap is operable to attach the housing to the user's wrist.

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25. A wearable electronic device comprising:

an elongated housing having-

a top face,

a bottom face positioned opposite the top face,

5 a front wall connected to the top face and bottom face,

a rear wall opposed to the front wall, wherein the rear wall is connected to the top face and bottom face,

a pair of opposed side walls, wherein each side wall is connected to the top face and bottom face,

10 a backlit liquid crystal display positioned on the top face which is operable to display multiple lines of a plurality of alphanumeric characters, shapes, and symbols, capable of being viewed from multiple angles,

15 a plurality of contacts positioned on the bottom face operable to receive electrical power and data,

a pair of connection elements positioned on the bottom face operable to secure the housing, and

20 a plurality of inputs positioned on the front wall comprising a power input operable to turn the device on and off, a mode input operable to change an operating mode of the device, a reset lap input operable to reset a timing function, an enter start/stop input operable to start and stop the timing function and to confirm a menu selection, and a down input and an up input operable to choose a data screen and change a selection within the data screen;

25 a location determining component based on a global positioning system and adapted to determine a geographic location of the device, wherein the location determining component is housed within the elongated housing and interfaced with the plurality of inputs and display, such that the functionality of the location determining component is controlled by the  
30 plurality of inputs and the display communicates the geographic location of the device;

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an antenna coupled with the location determining component and enclosed by the housing such that the antenna may not come into contact with the user; and

5 a strap operable to attach to the connection elements and couple with the housing to secure the housing to the user's forearm.

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26. A wearable electronic device comprising:  
a location determining component operable to determine geographic location  
information;  
an exercise performance monitor component operable to calculate performance  
information;  
an elongated housing which encloses the location determining component and  
exercise performance monitor component; and  
a strap operable to removably attach the housing to a user.

27. The wearable electronic device of claim 26, wherein the exercise  
performance monitor component is operable to calculate performance information  
comprising total distance, total distance goals, speed, and speed goals.

28. The wearable electronic device of claim 26, wherein the exercise  
performance monitor component is operable to interface with the location determining  
component to receive the geographic location information.

29. The wearable electronic device of claim 28, wherein the exercise  
performance monitor component is operable to calculate performance information based  
on the geographic location information.

30. The wearable electronic device of claim 26, wherein the strap is operable to  
secure the housing to the user's forearm.

31. The wearable electronic device of claim 26, wherein the device includes at  
least one input to operate the location determining component and exercise performance  
monitor component.

32. The wearable electronic device of claim 31, wherein the device includes a  
plurality of inputs positioned on the housing such that they may be accessed by the user  
during exercise or other activity.

33. The wearable electronic device of claim 26, the housing having a front side with a plurality of inputs positioned thereon, such that the plurality of inputs may be accessed by the user during exercise or other activity.

5           34. The wearable electronic device of claim 26, the housing having a front side and top face with a plurality of inputs positioned on the front side and top face, such that the plurality of inputs may be accessed by the user during exercise or other activity.

10           35. The wearable electronic device of claim 26, the device having a display positioned such that it may be easily viewed by the user during exercise or other activity.

36. The wearable electronic device of claim 35, wherein the display is positioned on a top face of the housing.

15           37. The wearable electronic device of claim 35, wherein the display is a liquid crystal display.

38. The wearable electronic device of claim 35, wherein the display is capable of being viewed from multiple angles.

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39. The wearable electronic device of claim 35, wherein the display is coupled with the location determining component to display geographic information.

25           40. The wearable electronic device of claim 39, wherein the display is operable to display the geographic location of the device.

41. The wearable electronic device of claim 39, wherein the display is coupled with the exercise performance monitor component to display performance information.

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42. A wearable electronic device comprising:

a location determining component operable to determine geographic location information;

5 an exercise performance monitor component operable to calculate performance information based on the geographic location information;

an elongated housing which encloses the location determining component and exercise performance monitor component;

10 a display positioned on the housing which is operable to display the geographic location information and performance information, wherein the display may be viewed from multiple angles by the user during exercise or other activity;

15 a plurality of inputs operable to operate the location determining component and exercise performance monitor component, wherein the inputs are positioned on the housing such that the inputs may be operated by the user with one hand; and

a strap operable to removably attach the housing to the user's forearm.

43. The wearable electronic device of claim 42, wherein the location determining component comprises a GPS receiver.

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44. The wearable electronic device of claim 43, wherein the GPS receiver is operable to receive a signal from two or more members of an array of orbiting satellites.

25 45. The wearable electronic device of claim 42, wherein the location determining component is operable to determine the user's current geographic location, map the user's location on the display, chart a desired course of travel on the display, and find a desired location on a map generated on the display.

30 46. The wearable electronic device of claim 42, the device including an antenna coupled with the location determining component.

47. The wearable electronic device of claim 46, wherein the antenna is enclosed entirely within the housing such that it does not contact the user.

48. The wearable electronic device of claim 47, wherein the antenna is positioned opposite the display within the housing.

49. The wearable electronic device of claim 42, the elongated housing shaped  
5 such that it may fit on the user's forearm.

50. The wearable electronic device of claim 42, the housing having a width between two and four inches, a height between one and two inches, and a depth between one-eighth of an inch and one inch.  
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51. The wearable electronic device of claim 42, wherein the device includes an entertainment component operable to execute at least one game.

52. The wearable electronic device of claim 51, wherein the entertainment  
15 component is operable to interface with the location determining component to receive the geographic location from the location determining component.

53. The wearable electronic device of claim 52, wherein the entertainment component includes the geographic location in an executed game.  
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54. The wearable electronic device of claim 53, wherein the entertainment component is operable to interface with the exercise performance monitor component to receive the performance information.

25 55. The wearable electronic device of claim 55, wherein the entertainment component includes the performance information in an executed game.

56. The wearable electronic device of claim 42, wherein the strap is operable to attach the housing to the user's wrist.  
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57. A wearable electronic device comprising:

a location determining component having a GPS receiver operable to determine geographic location information including a user's current geographic location;

5 an antenna coupled with the location determining component to assist the location determining component in receiving a signal;

an exercise performance monitor component operable to interface with the location determining component to receive the geographic location information and calculate performance information based on the geographic location information;

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an elongated housing which completely encloses the location determining component, antenna and exercise performance monitor component;

a display positioned on the housing which is operable to display the geographic location information and performance information, wherein the display may be viewed from multiple angles by the user during exercise or other activity;

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a plurality of inputs positioned on the housing such that the inputs may be operated by the user with one hand, wherein the inputs are operable to operate the location determining component and exercise performance monitor component; and

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a strap operable to removably attach the housing to the user's forearm.

58. The wearable electronic device of claim 57, wherein the device includes an entertainment component operable to execute at least one game.

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59. The wearable electronic device of claim 58, wherein the entertainment component is operable to interface with the location determining component to receive the geographic location from the location determining component.

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60. The wearable electronic device of claim 59, wherein the entertainment component includes the geographic location in an executed game.

61. The wearable electronic device of claim 58, wherein the entertainment component is operable to interface with the exercise performance monitor component to receive the performance information.

5        62. The wearable electronic device of claim 61, wherein the entertainment component includes the performance information in an executed game.

63. The wearable electronic device of claim 57, wherein the elongated housing includes a contact operable to receive electrical power and data.

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64. The wearable electronic device of claim 63, wherein the location determining component is operable to receive information through the contact.

65. The wearable electronic device of claim 63, wherein the exercise  
15 performance monitor component is operable to receive information through the contact.

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